Abdelrahman Ataa Mohamed

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github.com/abdelrahman-ops   linkedin.com/in/abdelrahman-ataa-b557b8219 🔗 Portfolio

Professional Summary

Third-year Computer and Communication Engineering student specializing in **full-stack development** and **IoT**. Passionate about building scalable, real-world solutions with expertise in **data structures**, **algorithms**, and **system design**. Strong problem-solving skills and a drive for innovation.

Technical Skills

- **Programming Languages**: C, C++, Python, JavaScript, TypeScript, SQL
- **Frontend**: React.js, Tailwind CSS, Bootstrap
- **Backend**: Node.js, Express.js, Flask, Next.js
- **Databases**: MongoDB, MySQL, PostgreSQL, SQLite3, Firebase
- **DevOps & Tools**: Git, GitHub, Docker, AWS (EC2, S3, RDS, Lambda)
- **Security & APIs**: JWT Authentication, REST APIs, Socket.IO
- **Other Skills**: Data Visualization, IoT Development, Debugging, CRUD, Responsive Design.

Education

Mansoura University   09/2021 – 06/2026
Bachelor of Science in Computer and Communication Engineering
- **Current GPA:** 3.66
- **Relevant Coursework:** Data Structures, Algorithms, Database Systems, Network Programming

Internships

Frontend React.js Intern, *Digital Egypt Pioneers Initiative (DEPI)*   04/2024 – 10/2024
- Built 3+ fully responsive web applications using React.js, enhancing frontend performance and user experience by 30%.
- Recognized with the **DEPI Certificate** for outstanding performance in web development.

IOT Intern, *Samsung Innovation Campus*   08/2023 – 10/2023
- Designed an **IOT-based fire detection system**, earned **1st place** in the program tournament.
- Gained expertise in **Raspberry Pi Programming**, **IOT** hardware/software integration, and **network communication**.
- Led a 4-member team to develop an IoT fire detection system, improving response time by 20%.

Projects

BloodFlow – Blood Donation Website, *(MERN Stack)*, *Website* 🔗 - *GitHub* 🔗
- Developed a scalable full-stack platform to connect donors and patients using **React.js**, **MongoD**B, and **Express.js**.
- Implemented **JWT authentication** and role-based access control (RBAC), improving system security and reducing unauthorized access by 30%.
- Integrated **Google Maps API** for real-time donor location tracking, increasing usability by 40%.
- Achieved **3rd Place** in the **Samsung Innovation Campus Hackathon 2024**.

Automated Pet Nourish, *(IoT Project)*
- Created an IoT-based pet feeding solution using **Raspberry Pi 4**, managed via a **Flask-based web app**.

Lumira E-Commerce Website, *(MERN Stack), Website ⧉ - GitHub ⧉*
- Engineered a high-performance e-commerce platform with **React, Node.js, Express, and MongoDB**, ensuring a seamless shopping experience.
- Implemented **JWT authentication** for secure user access and **React Query** for optimized data fetching.
- Developed an intuitive **product search, filtering, and dynamic product pages**, enhancing **UX**.
- Leveraged **Tailwind CSS and Framer Motion** to craft a modern, responsive, and visually appealing **UI**.
- Optimized transaction speed by **25%** and increased user engagement by **35%** through advanced caching strategies and efficient API calls.

TaskHorizon – Task Manager Website, *(Express.js & MongoDB), Website ⧉ - GitHub ⧉*
- Developed a **scalable and secure backend** using **Express.js, MongoDB, and Node.js**, ensuring smooth task management operations.
- Integrated **role-based access control (RBAC)** to manage user permissions effectively.
- Optimized **MongoDB queries and indexing**, reducing task retrieval time by **20%** for faster performance.
- Designed a **RESTful API** with structured error handling and validation using **Express Validator**.

D-Blink – Multimedia Website, *(Flask & SQLite3) Website ⧉*
- Built a multimedia platform featuring TV shows, movies, and anime using **Flask**, **Python**, and **SQLite3**.
- Increased user engagement by **40%** and reduced bounce rate by **20%**.

Awards & Achievements

- **3rd Place** – Samsung Hackathon (BloodFlow Project)　　　　　　　　　　　　(12/2024)
- **2nd place** – Huawei AI HCIA Course, Huawei Academy　　　　　　　　　　　(11/2024)
- **1st Place** – IoT Fire Detection System, Samsung Innovation Campus　　　　(09/2023)
- **Winner** – Ultimate C Programming Contest, Faculty of Engineering　　　　　(09/2023)

Certificates

- **ReactJS Web Development**, *Digital Egypt Pioneers Initiative* (DEPI)　　　　04/2024 – 10/2024

- **IoT Specialization**, *Samsung Innovation Campus*　　　　　　　08/2023 – 10/2023 | Cairo

- **Google Cybersecurity Professional Certificate**, *Coursera*　　　　　　07/2023 – 09/2023

    - *Focus Areas: Manage Security Risks, Network Security, Linux, SQL*

- **CS50: Introduction to Computer Science**, *EDX- Harvard University*　　　01/2023 – 06/2023

- **Huawei AI HCIA Certificate**, *Huawei Academy*　　　　　　　　　　　07/2024 – 08/2024

Extracurriculars

- **IEEE MansouraCSC,** *Frontend Member & Member Development*　　　　　2023 – 2024
- **CAT Reloaded,** *Frontend Supervisor – English Supervisor*　　　　　　　2023 – Present
- **ICPC,** *PR Member*　　　　　　　　　　　　　　　　　　　　　　　2024 – Present

Languages

English　　　　　　　　　　　　**Arabic**

Advanced　　　　　　　　　　　　Native